

### Lehrstuhl Angewandte Informatik IV Datenbanken und Informationssysteme Prof. Dr.-Ing. Stefan Jablonski

Institut für Angewandte Informatik Fakultät für Mathematik, Physik und Informatik Universität Bayreuth

$\sim$		•		
Se	m	11	าว	1
L)C			10	ш

Vorname Nachname

August 26, 2015 Version: Draft / Final

#### Universität Bayreuth

Fakultät Mathematik, Physik, Informatik Institut für Informatik Lehrstuhl für Angewandte Informatik IV

Titel / Topic

#### **Seminar**

Vorname Nachname

1. Reviewer Prof. Dr.-Ing. Stefan Jablonski

Fakultät Mathematik, Physik, Informatik Universität Bayreuth

Universitat bayreut

2. Reviewer Dr. Stefan Schönig

Fakultät Mathematik, Physik, Informatik

Universität Bayreuth

Supervisors Stefan Schönig and Lars Ackermann

August 26, 2015

#### **Vorname Nachname**

Seminar

Titel / Topic, August 26, 2015

Reviewers: Prof. Dr.-Ing. Stefan Jablonski and Dr. Stefan Schönig

Supervisors: Stefan Schönig and Lars Ackermann

#### Universität Bayreuth

Lehrstuhl für Angewandte Informatik IV Institut für Informatik Fakultät Mathematik, Physik, Informatik Universitätsstrasse 30 95447 Bayreuth Germany

### **Abstract**

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

# Abstract (different language)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

### Acknowledgement

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

i really wanna stay at your house

## **Contents**

1	Intro	oduction	1
2	Rela	ated Work	3
3	Bac	kground	5
	3.1	Event Logs	5
	3.2	Predictive Business Process Model Monitoring	5
	3.3	Machine Learning	5
	3.4	Fairness	5
4	Met	hodology	7
	4.1	Data Gathering	7
		4.1.1 Data Simulation	7
		4.1.2 Data Augmentation	7
	4.2	Data Processing	7
	4.3	Training the Model	7
	4.4	Knowledge Distillation	7
	4.5	Modification of the Decision Tree	7
	4.6	Finetuning of the Model	7
5	Eval	luation	9
	5.1	Evaluation Metrics	9
	5.2	Evaluation Use Cases	9
	5.3	Evaluation Results	9
6	Con	clusion	11

Introduction

Related Work

Background

- 3.1 Event Logs
- 3.2 Predictive Business Process Model Monitoring
- 3.3 Machine Learning
- 3.4 Fairness

Methodology

- 4.1 Data Gathering
- 4.1.1 Data Simulation
- 4.1.2 Data Augmentation
- 4.2 Data Processing
- 4.3 Training the Model
- 4.4 Knowledge Distillation
- 4.5 Modification of the Decision Tree
- 4.6 Finetuning of the Model

Evaluation

- 5.1 Evaluation Metrics
- 5.2 Evaluation Use Cases
- 5.3 Evaluation Results

Conclusion

# List of Figures

# **List of Tables**

# **Declaration**

You can put your declaration here, to declare that you have completed your work
solely and only with the help of the references you mentioned.
Bayreuth, August 26, 2015
Vorname Nachname